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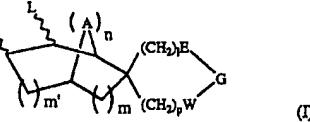
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(54) POLYMER AND PHOTORESIST COMPOSITIONS

(57) Abstract:

PURPOSE: Provided are spirocyclic olefin polymers, methods of preparing spirocyclic olefin polymers, photoresist compositions including spirocyclic olefin resin binders and methods of forming relief images using such photoresist compositions.



CONSTITUTION: The spirocyclic olefin monomer is represented by formula(I), wherein A = "O," S, CH₂, and NR₁; R₁ = "phenyl," substituted phenyl, benzyl, substituted benzyl, (C₁–C₈)alkyl and substituted (C₁–C₈)alkyl; G = "C(Z')," O, S, and NR₂; R₂ = "(C₁–C₈)alkyl" and substituted (C₁–C₈)alkyl; E and W are independently selected from C(Z'), O, NR₂ and a chemical bond; Z' = "O" or S; n = "0" to 3; m = "0" to 2; m' = "0" to 2; 1 = "0" to 5; and p = "0" to 5; provided that 1 + p = "3" to 5; provided that when A = "O," S or NR₁, n = "1;" wherein T and L are taken together and selected from a double bond or a 5 to 8-membered unsaturated ring.

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